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10/673,207	09/30/2003	Hyung-Jong Kang	101-1004	9591

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EXAMINER

SARPONG, AKWASI

ART UNIT	PAPER NUMBER
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2609

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/673,207

Applicant(s)

KANG ET AL.

Examiner

Akwasi M. Sarpong

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-40 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-40 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>10/27/2005</u> . | 6) <input type="checkbox"/> Other: _____ |

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Detailed Action

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-5,7 8,9,10,11,12,13,14,15,17and 25-31 are rejected under 35 U.S.C. 102(e) as being anticipated by Chen (7019869).

Claim 1,Chen discloses a scanning and/or printing apparatus (Fig. 4),
comprising:

a scanning unit scanning a document and outputting a scanned result (Column 5 Lines 63-67 Fig. 1 Element 110).

a storage unit inherently shows storing the scanned result inputted from the scanning unit (Fig. 4 Element 481).

a printing unit reading the scanned result from the storage unit to print the scanned result (Column 6, Lines 34-45) and (Column 5, Lines 37-45).

wherein the storage unit is selectively connected to one of the scanning unit printing unit. (Column 6 Lines 34-50).

Claim 2, Chen discloses a first connector connecting the storage unit to the scanning unit. (Fig. 4 Element 471)

a second connector connecting the storage unit to the printing unit (Fig 4. Element 471).

Claim 3, Chen discloses wherein the scanning unit comprises:

an input/output port (Column 5 Lines 1-7 Fig. 3 Element 371).

a scanning control unit outputting the scanned result to the storage unit through the input/output port and the first connector (Fig 2 Element 240).

Claim 4, Chen discloses wherein the scanning unit further comprises a display unit displaying the scanned result (Column 5 Lines 19-24 Fig. 3 Element 340) and a key unit generating at least one of a searching signal, a deleting signal, and a selecting signal, (Column 5 Line 12-16) and the scanning control unit scrolls the scanned result displayed on the display unit according to the searching signal of the key unit, deletes the scanned result according to the deleting signal of the key unit, selects the scanned result according to the selecting signal of the key unit, and generates a control signal to control the display unit to display the scanned result (Column 7 Lines 19-23 Fig 2 Element 240).

Claim 5, Chen discloses wherein the printing unit comprises:

an input/output port (Fig. 4 element 482 inherently has an input/output port)

a printing control unit reading the scanned result inputted from the storage unit through the input/output port and the second connector to print the scanned result (Column 6 Lines 34-38).

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Claim 7, Chen discloses wherein the storage unit comprises:

a universal serial bus (USB) flash memory stick (Column 5 Lines 1-6 Fig 4 Element 481).

Claim 8, Chen discloses a method of a scanning and/or printing apparatus, the method comprising:

causing a storage unit to be connected to a scanning unit scanning a document and outputting a scanned result (Fig. 1 Element 110 and 130).

storing the scanned result inputted from the scanning unit into the storage unit (Column 5 Lines 21-30).

causing the storage unit to be connected to a printing unit reading the scanned result from the storage unit; and (Column 5 Lines 1-6)

printing the scanned result read from the storage unit in the printing unit.(Fig. 4 Element 482).

Claim 9, Chen discloses a scanning and/or printing (Fig. 4) apparatus, comprising:

a scanning and/or printing unit scanning a document and printing the scanned result; and (Fig. 3 Element 311)

a plurality of storage units storing the scanned result inputted from the scanning and/or printing unit (Fig. 4 Elements 420,421,481).

wherein the scanning and/or printing unit prints the scanned result read from the storage units. (Column 6 Lines 30-34).

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Claim 10, Chen discloses wherein the scanning and/or printing unit comprises: a plurality of connectors connecting corresponding ones of the storage units to the scanning and/or printing unit. (Fig. 4 Elements 421,420,471 and 472)

Claim 11, Chen discloses wherein the scanning and/or printing unit further comprises:

an input/output port (Column 5 Lines1-6 Fig. 4 Element 471).

a scanning/printing control unit outputting the scanned result to the storage units through the input/output port and corresponding ones of the connectors, (Column 5 Lines 10-36) and printing the scanned result inputted from the storage units through the input/output port and the corresponding ones of the connectors (Column 6 Lines 30-41).

Claim 12, Chen discloses wherein the scanning and/or printing control unit further comprises a display unit displaying the scanned result scanned from the document and read and inputted from the storage units through the input/output port, (Column 5 Lines 21-23) and a key unit generating at least one of a searching signal, a deleting signal, and a selecting signal (Fig. 3 Element 340) and the scanning control unit scrolls the scanned result displayed on the display unit according to the searching signal of the key unit, deletes the scanned result according to the deleting signal of the key unit, selects the scanned result according to the selecting signal of the key unit, and generates a first control signal to control the display unit to display the scanned result scanned from the document and a second control signal to control the display unit to display the scanned result and inputted from the storage units through the input/output port. (Column 5 lines 30 -36 Fig.2 Element 240).

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Claim 13, Chen discloses method of a scanning and/or printing apparatus, the method comprising:

scanning a document in a scanning and/or printing unit (Column 5 Lines 10-21).

storing a scanned result in a plurality of storage units (Column 5 Lines 36-43).

(having a USB interface and a printer interface used to connect to other peripheral equipment such as USB devices and a printer) and therefore it reads on reading the scanned result from the storage units printing the scanned result read from the storage unit.

Claim 14, Chen discloses a scanning apparatus, comprising:

a scanning unit scanning a document and outputting a scanned result (Fig. 3 Element 311)

at least one external storage unit detachably attached to the scanning apparatus (Fig. 3 Element 320);

at least one internal storage unit (Fig. 1 Element 130).

a controller (Fig. 2 Element 240) detecting an attachment state of the external storage unit, and storing the scanned result in at least one of the external storage unit and the internal storage unit according to the detected attachment state of the external storage unit (Column 5 Lines 35-39).

Claim 15, Chen discloses wherein the scanned result stored in the one of the external storage unit and the internal storage unit is printed (Column 6 Line 33-42 Fig 4, Element 482).

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Claim 17, Chen (Fig. 1 Element 45) discloses a first interface unit interfacing the external storage unit with the controller.

Claim 25, Chen discloses a scanning apparatus (Fig. 1 Element 110), comprises: a scanning unit scanning a document to output a scanned result (Fig. 1 Element 110).

Chen discloses a storage unit detachably attached to the scanning unit, and storing the scanned result inputted from the scanning unit. (Column 4 Lines 1-6 Fig. 4 Element 421, 420).

Claim 26, Chen discloses wherein the storage unit comprises: one of a memory stick (MS), a compact flash (CF) card, a secure digital (SD) memory card, a multimedia card (MMC), a smart media (SM) card, a universal serial bus (USB) memory card or stick, and an xD-picture card (Column 6 Lines 35-40 Fig. 4 Element 481).

Claim 27, Chen discloses wherein the storage unit is directly attached to the scanning unit (Fig. 3 Element 320).

Claim 28, Chen discloses wherein the storage unit is not connected to the scanning unit through a processing unit disposed outside of the scanning apparatus. (Fig. 3 Element 320)

Claim 29, Chen discloses wherein the scanning unit comprises an input/output port connectable to a personal or portable computer which controls the scanning unit to scan the document to output the scanned result (Fig. 4 Element 472).

Claim 30, Chen discloses wherein the storage unit is not connected to the scanning unit through the personal or portable computer (Fig. 4 Element 421).

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Claim 31, "wherein the storage unit comprises a first sub-storage unit and a second sub-storage unit, and the scanned result is stored in the first sub-storage unit and the second sub-storage unit simultaneously" reads on Chen storage unit, Fig. 1 Element 130.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 6 and 39-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen (7019869) and in view of Ahne (7068287)

Claim 6, Chen discloses all the limitation in Claims 1-5 as discussed above.

Chen does not disclose wherein the printing unit further comprises a display unit displaying the scanned result read from the storage unit and inputted through the input/output port and a key unit generating at least one of a searching signal, a deleting signal, and a selecting signal, and the printing control unit scrolls the scanned result displayed on the second display unit according to the searching signal of the key unit,

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deletes the scanned result according to the deleting signal of the key unit, selects the scanned result according to the selecting signal of the key unit, and generates a control signal to control the display unit to display the scanned result.

Ahnes discloses wherein the printing unit further comprises a display unit displaying the scanned result read from the storage unit and inputted through the input/output port (Column 8 Lines 5-16 Fig. 5) and a key unit generating at least one of a searching signal, a deleting signal, and a selecting signal (Fig. 5 Element 42), and the printing control unit scrolls the scanned result displayed on the second display unit according to the searching signal of the key unit, deletes the scanned result according to the deleting signal of the key unit, selects the scanned result according to the selecting signal of the key unit, and generates a control signal to control the display unit to display the scanned result (Fig. 1 Element 17, Column 7 Lines 40-50). Therefore it will be obvious to one ordinary skilled in the art at the time the invention was made to modify Chen's printing unit with Ahnes' display and key unit so that you rearrange your print jobs in order of importance.

Claim 39, Chen discloses a scanning (Fig. 3 Element 311) and printing (Fig. 4 Element 482) apparatus comprising:

- a scanning unit scanning a document to output a scanned result (Fig. 4 Element 311);

- a storage unit detachably attached to the scanning unit to store the scanned result (Fig. 4 Element 481),

- a printing unit printing the scanned result (Fig. 4 Element 482)

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Chen does not disclose a storage unit detachably attached to the printing unit to output the scanned result to the printing unit.

Ahne discloses a storage unit detachably attached to the printing unit to output the scanned result to the printing unit (Column 7 Lines 58-67 and Column 8 Lines 1-5). Therefore it will be obvious to one ordinary skilled in the art at the time the invention was made to modify Chen's scanning unit with Ahne's printing unit to be able to scan and print your document without a PC as cited in Ahne Column 1 Lines 35-38.

Claim 40, Chen in view of Ahne discloses wherein the storage unit is directly attached to the scanning unit without interference of a processing unit disposed outside of the scanning and printing apparatus (Fig. 4 Element 481).

3. Claims 16 and 18 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable by Chen (7019869) in view of Hayward (7111250).

Claim 16, Chen discloses all the limitations in Claim 14 as explained above.

Chen does not disclose a combination apparatus mounted with a copier having a copying function.

Hayward, discloses a combination apparatus mounted with a copier having a copying function (Column 5 Lines 25-26). Therefore it will be obvious to one ordinary skilled in the art at the time the invention was made to modify Chen's scanning unit with Hayward's copier to be able to scan and print the image within the same unit. (as stated in Hayward Column 5 lines 38-43)

Claim 18, Chen discloses all limitations in Claim 14 as explained above. Chen does not disclose a second interface unit, wherein the controller receives the scanned

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result from an outside of the scanning apparatus through the first interface unit, and outputs the scanned result inputted from the outside of the scanning apparatus through the first interface unit to the outside of the apparatus through the second interface unit, and the scanned result to be outputted to the outside of the scanning apparatus through the second interface unit is printed.

Hayward (Fig. 1 Element 26) discloses a second interface unit, wherein the controller receives the scanned result from an outside of the scanning apparatus through the first interface unit, and outputs the scanned result inputted from the outside of the scanning apparatus through the first interface unit to the outside of the apparatus through the second interface unit, and the scanned result to be outputted to the outside of the scanning apparatus through the second interface unit is printed. Therefore it will be obvious to one ordinary skilled in the art at the time the invention was made to modify Chen's scanning unit with Hayward's second interface to be able to control data coming in from outside of the scanning unit.

Claim 32, Chen discloses all the limitations in claim 25 as explained above.

Chen does not disclose wherein the storage unit comprises a first sub-storage unit and a second sub-storage unit, the scanned result comprises a first sub-scanned result and a second sub-scanned result, and the first sub-scanned result and the second sub-scanned result are stored in the first sub-storage unit and the second sub-storage unit, respectively.

Hayward's memory in Fig. 1 Element 34 reads on "wherein the storage unit comprises a first sub-storage unit and a second sub-storage unit, the scanned result

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comprises a first sub-scanned result and a second sub-scanned result, and the first sub-scanned result and the second sub-scanned result are stored in the first sub-storage unit and the second sub-storage unit, respectively". Therefore it will be obvious to one ordinary skilled in the art at the time the invention was made to modify Chen's storage with Hayward's memory so that the burden can be shared between the sub-scanned unit.

4. Claims 19-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayward (7019869) in view of Chen (7019869).

Claim 19, Hayward discloses a method of a scanning apparatus (Fig. 1 Element 40), the method comprising:

scanning a document and outputting a scanned result in a scanning unit (Column 11 Lines 61-63 Fig. 1 Element 18);

causing an internal storage unit to be disposed inside the scanning apparatus (Fig. 1 Element 22);

detecting an attachment state of the external storage unit to the apparatus (Column 14 Lines 26-32);

storing the scanned result in the external storage unit if it is determined that the attachment state is one in which the external storage unit is attached to the scanning apparatus (Column 3 Lines 44-55).

Hayward does not disclose storing the scanned result in the internal storage unit if it is determined that the attachment state is one in which the external storage unit is not attached to the scanning apparatus.

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Chen discloses storing the scanned result in the internal storage unit if it is determined that the attachment state is one in which the external storage unit is not attached to the scanning apparatus (Column 3 Lines 63-66 and Column 4 Lines 1-4). Therefore it will be obvious to one ordinary skilled in the art at the time the invention was made to modify Hayward's method with Chen's method to reduce the time in transferring data from one storage media to the other.

Claim 20, Hayward in view of Chen (Column 4 Lines 1-6) further discloses storing the scanned result, which has been stored in the internal storage unit, in the external storage unit when the external storage unit is attached after the scanned result has been stored in the internal storage unit according to the detected attachment state.

Claim 21, Hayward in view of Chen (Column 4 Lines 1-10) discloses determining whether the scanned result of the internal storage unit should be stored in the external storage unit when the external storage unit is attached to the scanning apparatus.

and

storing the scanned result of the internal storage unit in the external storage unit upon determining that the scanned result of the internal storage unit should be stored in the external Storage unit. (Column 3 Lines 55-65).

Claim 22, Hayward in view of Chen (Column 5 Lines 13-30) and (Column 5 Lines 11-16) discloses determining whether a next document should be scanned upon determining that the scanned result of the internal storage unit should not be stored in the external storage unit when the external storage unit is attached to the scanning apparatus.

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scanning the next document upon determining that the next document should be scanned.

Claim 23, Hayward in view of Chen (Column 5 Lines 11-16) and (Column 5 Lines 23-31) discloses determining whether a next document is ready to be scanned; scanning the next document upon determining that the next document is ready to be scanned; and storing the scanned next result in one of the internal storage unit and the external storage unit according to the detected attachment state of the external storage unit.

Claim 24, Hayward in view of Chen, discloses wherein the scanning of the document comprises scanning the document using a combination apparatus having a copier having a copying function (Column 5 Lines 25-27).

5. Claims 33-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ahne (7068387) in view of Hayward (7111250).

Claim 33, Ahne discloses a printing apparatus, (Fig. 1) Comprising:

A printing unit: (Fig. 1).

Ahne does not disclose a storage unit detachably attached to the printing unit and storing a scanned result, wherein the printing unit prints the scanned result read from the storage unit .

Hayward discloses a storage unit detachably attached to the printing unit and storing a scanned result, wherein the printing unit prints the scanned result read from the storage unit (Column 9 lines 49-66 Fig. 1 Element 21).Therefore it will be obvious

to one ordinary skilled in the art to modify Ahne's printing unit with Hayward's storage unit to make printing faster.

Claim 34, Ahne discloses wherein the storage unit is directly attached to the printing unit (Fig. 1 Element 21).

Claim 35, Ahne discloses wherein the storage unit is not connected to the printing unit through a processing unit disposed outside of the printing apparatus (Fig. 1 Element 21).

Claim 36, Ahne in view of Hayward (Column 5 Lines 12-22 Fig. 1 Element 16) further discloses wherein the printing unit comprises an input/output port connectable to a personal or portable computer, which controls the printing unit to scan the document to output the scanned result.

Claim 37, Ahne (Fig. 1 Element 21) in view Hayward discloses wherein the storage unit is not connected to the printing unit through the personal or portable computer.

Claim 38, "wherein the storage unit comprises a first sub-storage unit and a second sub-storage unit, the scanned result comprises a first sub-scanned result and a second sub-scanned result stored in the first sub-storage unit and the second sub-storage unit, respectively, and the printing unit prints one of the first sub-scanned result and the second sub-scanned result read from the first sub-storage unit and the second sub-storage unit" reads on Ahne's Memory 21 in Fig. 1 in view of Hayward.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Akwasi M. Sarpong whose telephone number is 571-2703438. The examiner can normally be reached on Monday-Friday 8:00am-5:00pm est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hai Tran can be reached on 571-272-7305. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AMS
August 23, 2007


SCOTT E. BELIVEAU
PRIMARY PATENT EXAMINER